SOLECTEK

Wireless Products

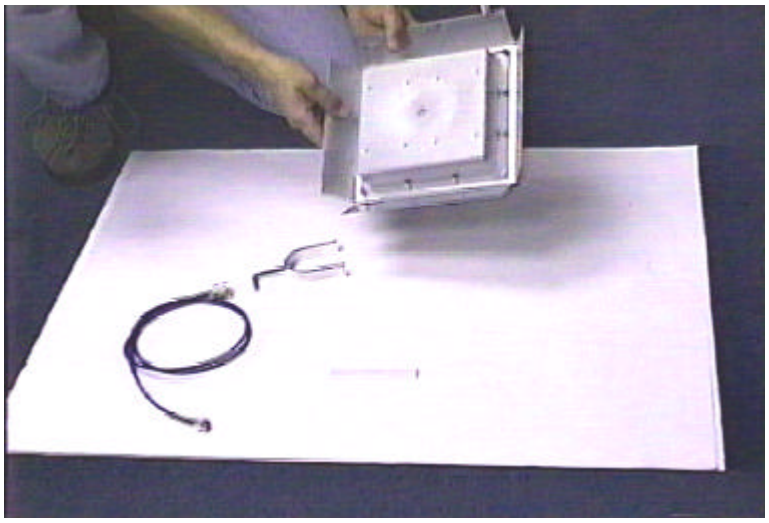
ANT-PNL-16
Installation Guide

Solectek ANT-PNL-16 Installation Guide

This antenna connects to the ODU (Outdoor Unit) supplied with Solectek MP-Series and certain AB-Series wireless bridge/routers. Antenna specifications are as follows:

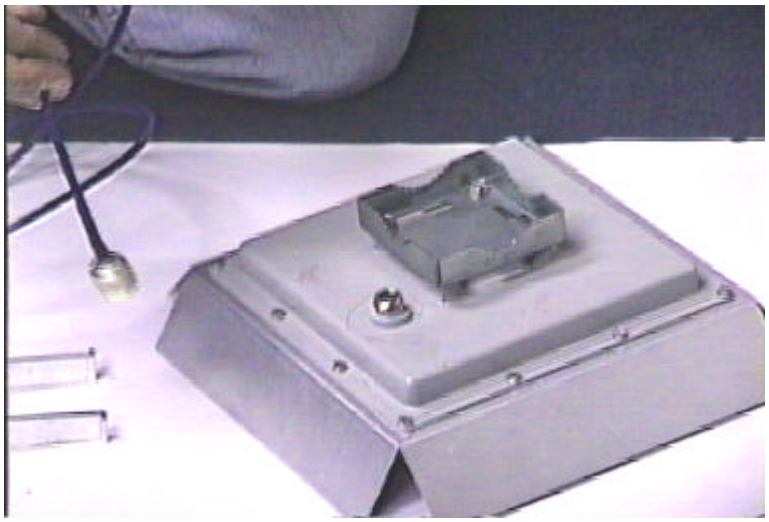
Frequency	2.4000 to 2.4835 GHz
Net Gain	15.2 dBi
3dB beam width	28 degrees
Front to back ratio	>40 dB
Polarity	Vertical (default) or horizontal, field changeable
Cross polarity rejection	>30 dB
VSWR (Average)	1.5:1
Impedance	50 ohms
Coaxial pigtail length (to ODU)	36 inches
Wind loading @ 100 MPH	25.0 lbs
Wind loading @ 140 MPH	49.4 lbs
Elevation adjustment	None
Size	10.75 in x 11 in
Weight	2.0 pounds (.91 Kg)
Reflector material	Stamped aluminum
Mounting hardware	Aluminum/stainless steel
Mast diameter	1-2 inch OD pipe

This manual provides the installer with a pictorial guide to the proper installation of this antenna. Please consult additional guidelines available from your Solectek Certified Reseller if necessary to ensure that this installation is safe and functions as expected.



Inventory all parts. Each ANT-PNL-16 package includes:

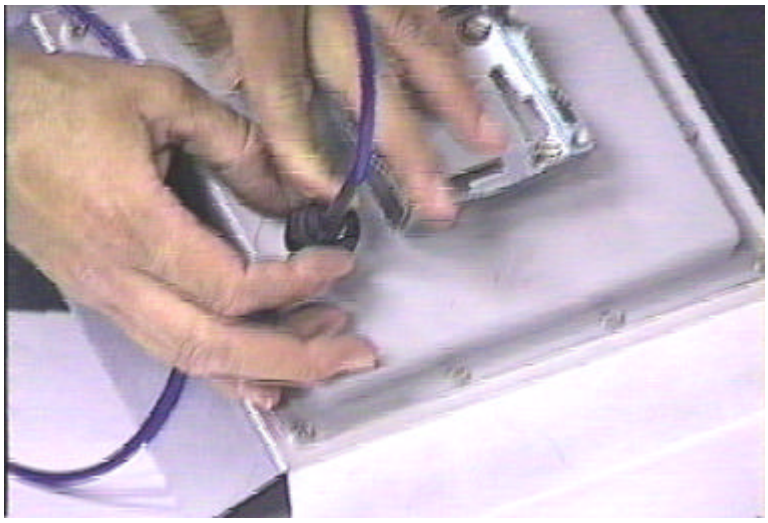
- Antenna
- Mast clamp
- “L” bolt for mast clamp
- Antenna to ODU cable
- Antenna cover and screws
- Connector sealant



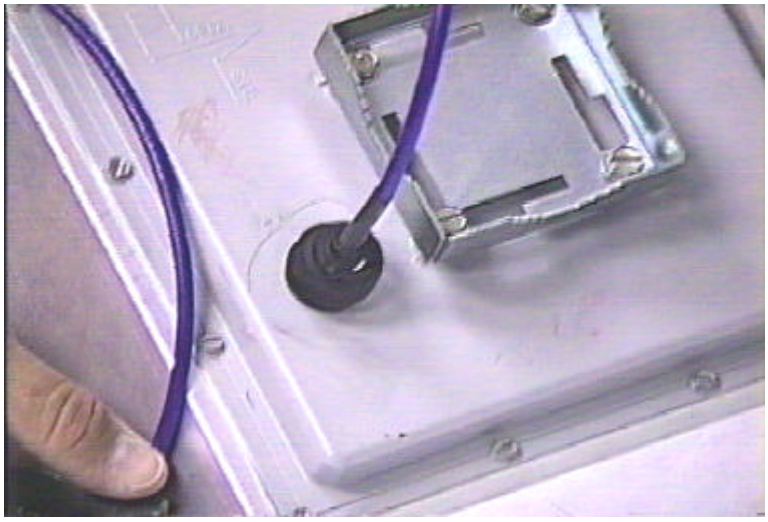
Install the antenna to ODU cable before installing the antenna on the mast

Carefully screw the cable to the antenna. Use only your hands, no tools. The threads can easily be stripped if a tool is used.

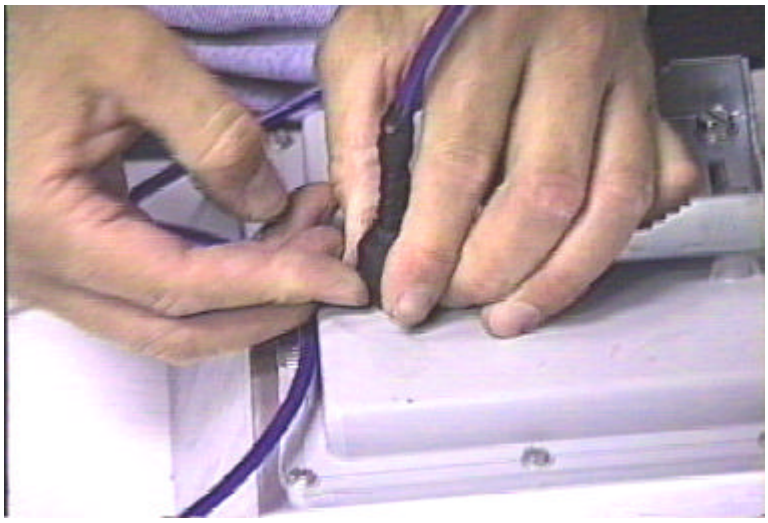
Peel the paper backing from the black connector sealant material. Gently stretch the black material as you wrap the connector to seal out moisture. Be sure to seal the juncture between the connector and plastic antenna body.



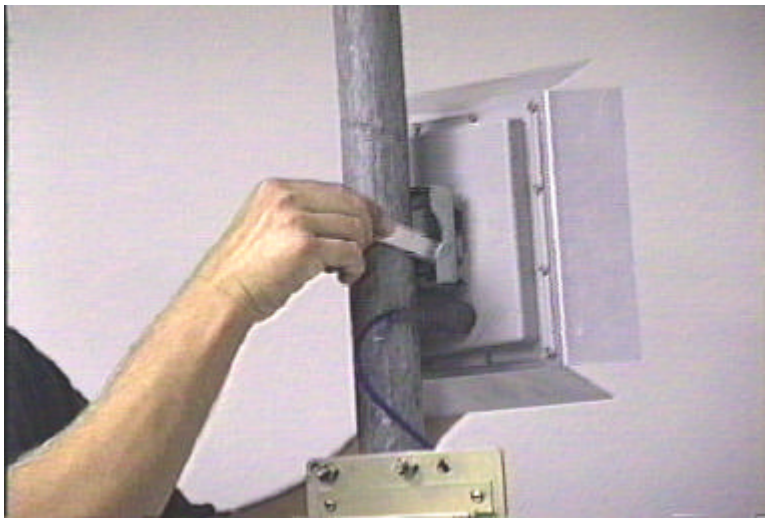
After using the first strip of sealing material, use your fingers to form it tightly against the connector.



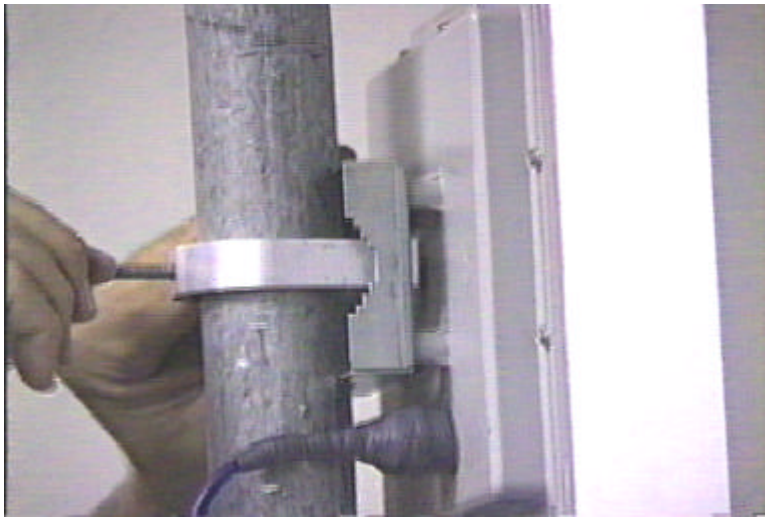
The connector on the ANT-PNL-16 will require two strips of sealing material to properly seal the connection. The first strip should almost cover the metal on the large knurled connector.



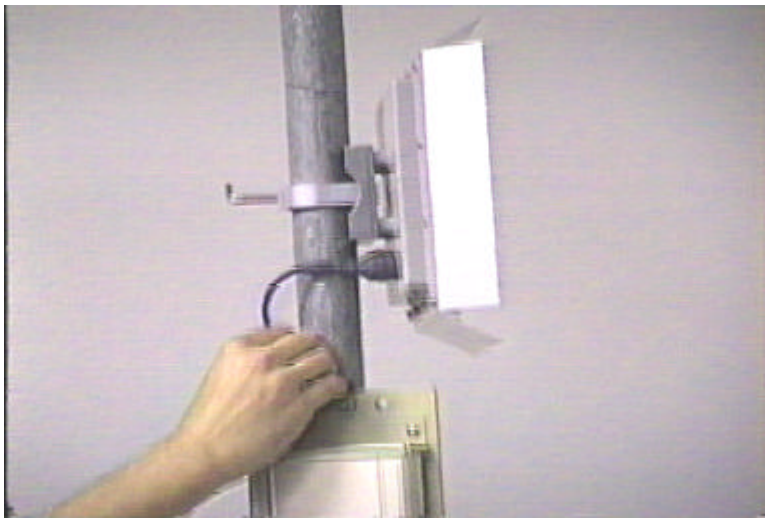
Use a second strip of black sealant material to create a watertight seal approximately 2 inches (5 cm) above the surface of the plastic antenna body.



Position the antenna on the mast. Insert the “U” shaped mast clamp, with “L” bolt installed, around the mast. Hook the mast clamp into the anchor slots located inside the square antenna mount.
NOTE: **Be sure to select Vertical or Horizontal polarity** as marked on the back of the antenna. Polarity must be the same for both ends of the link.

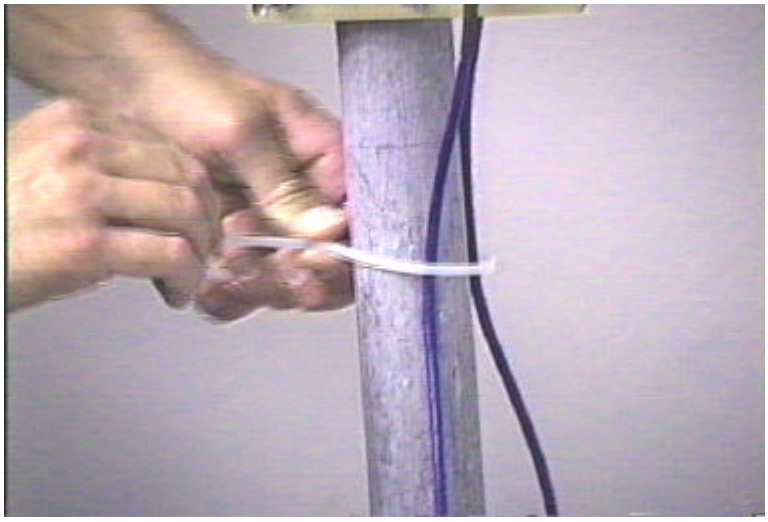


Tighten the “L” bolt to fasten the antenna securely to the mast
NOTE: Do not overtighten, as the antenna will need to be aligned for maximum radio signal intensity during final installation and configuration of the wireless system.



Carefully route the antenna to ODU cable down the mast.

Carefully screw the end cable into the “Antenna” terminal of the ODU. **NOTE:** Seal this terminal with the black sealant material. This connector is smaller than the one on the antenna, and should require only one strip. Be sure to stretch the sealant material while wrapping it around the connector.



Fasten the antenna to ODU cable to the mast with Ty-Wrap or other fastening material. If the cable is not fastened to the mast, the wind will move the cable and possibly cause damage and interruption to the wireless link.

Working with another technician located at the main unit, align the antenna for maximum radio signal. Tighten the “L” bolt securely when finished.

The ANT-PNL-16 can also be mounted against a flat wall or vertical surface by using the wall mounting bracket available from Solectek.

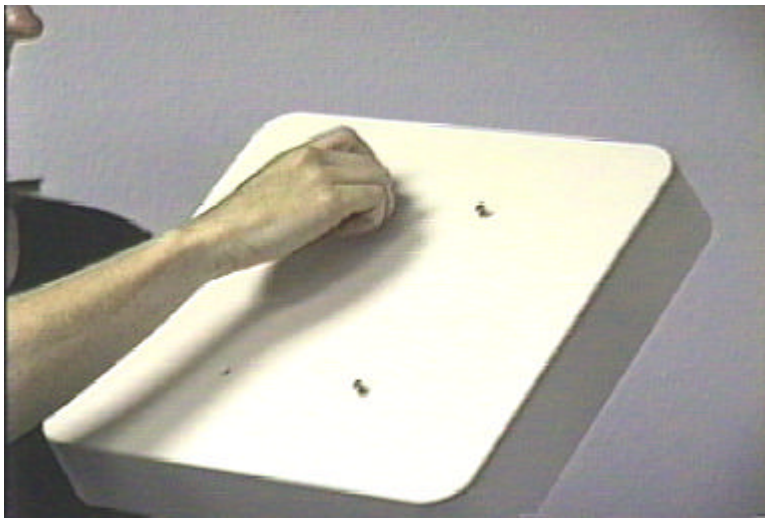
The wall-mount bracket mounts with four screws or lag bolts provided by the installer or customer. Two bolts on the bracket allow the arm to swing for adjusting the antenna elevation. Leave those two bolts slightly loose until after installing the antenna.

After firmly fastening the mount to the wall, slip the ANT-PNL-16 over the vertical arm of the wall bracket.

If the plastic cover is to be used, locate the four cover mounting holes on the plastic front (radome) of the ANT-PNL-16.

Locate the plastic cover and four mounting screws.

Fit the cover over the ANT-PNL-16 and line up the four mounting holes.



Insert and tighten the four cover mounting screws

** END **

One Year Limited Warranty

For products purchased using Solectek's U.S. & Canada MSRP Price List and installed in the United States or Canada. Effective August 1, 1999

Subject to the conditions and procedures set forth below during the warranty period, Solectek will repair or replace, at Solectek's option, such Solectek products or parts thereof which, on inspection by Solectek, are found to be covered by the limited warranties set forth below. The warranty period for new hardware products, which are listed on Solectek's U.S. & Canada MSRP Price List at time of purchase, is twelve months from the date of shipment from Solectek. The warranty period for spare parts and R- part numbers is ninety days from the date of shipment from Solectek.

If you think there is a problem or defect with your Solectek hardware product:

- Contact Solectek's Technical Support Department between 8:00 a.m. and 5:00 p.m., Pacific Time at (858) 450-1220, or via fax at (858) 457-2681, or via e-mail at tech@solectek.com. The Solectek Technical Support Representative will discuss your problem to confirm the defect. After business hours, please leave a voicemail or send an e-mail or fax. A Technical Support Representative will respond to you the next business day.

- If warranty or return service is needed, you will receive a Return Material Authorization (RMA) number. At no time should Solectek products be sent back without a valid RMA number. Solectek accepts no responsibility for unauthorized returns.

  You agree to pay for shipping to Solectek. If the product is under warranty, Solectek will pay for shipping of the repaired or replacement product to you via ground transportation to your location in the United States. For installations outside the continental U.S., Solectek will pay for shipping via ground transportation to the freight forwarder of your choice located in the continental United States. Any other freight arrangements will be at customer expense.

  Solectek shall not be liable for any damage caused to the product in transit. You acknowledge and agree that you will bear all risk of loss or damage to the product while in transit.

  Send return shipments to:
  Solectek Corporation
  6370 Nancy Ridge Drive, Suite 109
  San Diego, CA 92121-3212

  ATTN: RMA # _____

- Pack products securely, to prevent damage in transit. Be sure the RMA number is clearly visible on the outside of the return shipping carton.

- Returned Solectek products must include all other components from the original package, including the hardware, cables, connectors, software diskettes, and user manual(s) unless otherwise stipulated by Solectek.

- Enclose a copy of the original purchaser's proof of purchase, if needed to support warranty claim. (See details in LIMITATIONS section below.)

After inspecting the failed unit, Solectek will repair or replace materially defective parts or components. All products that are replaced become the property of Solectek. If upon inspection by Solectek, a unit returned under warranty is deemed to be damaged or out of warranty for any reason, (see LIMITATIONS section below), Solectek will contact the customer with a price for the repair or replacement unit. Upon receipt of payment (wire transfer, certified check, credit card, etc.) for the replacement unit plus outbound shipping fees, Solectek will send a repaired or replacement unit to the customer. Customers who do not accept the repair offer may receive their failed equipment back by prepaying an inspection fee of $300 and the return freight cost.

If upon inspection by Solectek, a unit returned under warranty is found to be defect free, Solectek reserves the right to charge the customer a $500 test fee.

SOLECTEK'S SOLE AND EXCLUSIVE OBLIGATION, AND YOUR SOLE AND EXCLUSIVE REMEDY, UNDER THIS LIMITED WARRANTY SHALL BE THE REPAIR OR REPLACEMENT OF THE APPLICABLE SOLECTEK PRODUCT IN ACCORDANCE WITH THE TERMS SET FORTH HEREIN.

LIMITATIONS

As the original purchaser, you receive these warranties from Solectek Corporation, subject to the terms and limitations set forth below.

Solectek warrants that your Solectek products will be free from defects in material and workmanship and will perform in substantial compliance with the operator's guide(s) accompanying the products for a period of one year for new hardware products listed on the U.S. & Canada MSRP Price List and ninety days for spare parts and R- part numbers.

Solectek does not cover or accept liability for any injury, damage or failure caused by misuse, misapplication, abuse, acts of nature, accidents (e.g., dropping the Solectek products or software diskettes), electrical mishaps, causes beyond our control, or claims by other than the original purchaser.

Solectek will not honor, and will consider this limited warranty voided, if, in Solectek's reasonable judgment, there has been any (1) tampering with the Solectek product's external label or serial number, (2) attempt to open the Solectek product's case without prior written consent from Solectek, (3) attempted or actual repair by anyone other than an authorized Solectek technician, (4) installation or use with any power supply component(s) other than the original Solectek power supply components provided in the product package, (5) installation or use with any cables or antenna(s) other than original Solectek products, (6) Installation or use in environmental conditions that are outside Solectek's published environmental specifications (including but not limited to temperature range, humidity, cable lengths, proximity to other devices, etc.).

Warranty is given for twelve (12) months from the date of product shipment from Solectek for new hardware products and ninety (90) days for spare parts and R- part numbers. Solectek will honor this warranty upon receiving proof of purchase. "Proof of purchase" is a copy of the original sales transaction, showing complete name and address of seller, complete name and address of purchaser, date of purchase, model number, and serial number.

This warranty is available only to the initial end user purchaser of the product and is not transferable. This warranty is applicable only to products purchased using Solectek's U.S. and Canada MSRP Price List and installed in

the U.S. and Canada. Warranty is void if products purchased using U.S. & Canada MSRP are sold and installed outside of the U.S. & Canada.

DISCLAIMER OF WARRANTIES

EXCEPT AS EXPRESSLY SET FORTH HEREIN, SOLECTEK HEREBY EXPRESSLY DISCLAIMS ANY AND ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE.

WAIVER OF CONSEQUENTIAL DAMAGES

SOLECTEK HEREBY DISCLAIMS ANY AND ALL SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION, LOST PROFITS, LOSS OF OR DAMAGE TO ANY OTHER COMPUTER EQUIPMENT OR RELATED DATA) WHICH MAY RESULT FROM BREACH OF ANY WARRANTY, OR ARISING OUT OF THE USE OR INABILITY TO USE ANY SOLECTEK PRODUCT, EVEN IF SOLECTEK HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

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